ELSEVIER

Nuclear Instruments and Methods in Physics Research A 397 (1997) 483–490

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Author index

Aaron, W.S., J.G. Tracy and E.D. Collins, Status of stable isotope enrichment, products, and services at the Oak Ridge National Laboratory . . . 397 (1997) 9
Abdullin, F.Sh., see Lobanov, Yu.V. . . . 397 (1997) 26
Abe, Y., see Morishima, N. . . . 397 (1997) 354
Adair, H.L., History of target making activities at ORNL from 1957 to 1996 . . . 397 (1997) 1
Akimune, H., see Daito, I. . . . 397 (1997) 465
Aleksan, R., L. Amerman, D. Aston, M. Benkebil, P. Besson, G. Bonneaud, Ph. Bourgeois, D. Brown, J. Chauveau, A. Ciocio, R. Cizeron, A de Lesquen, L. del Buono, S. Emery, A. Gaidot, L. Gosset, D. Hale, G. Hamel de Monchenault, O. Hamon, C. Hearty, A. Jouenne, J. Kadyk, H. Kawahara, H. Krueger, G. London, M. Long, A. Lu, A.M. Lutz, G. Lynch, D. McShurley, B. Meadows, J.M. Noppe, E. Pasquetto, S. Plaszczynski, W. Pope, M. Pripstein, G. Przybylski, J. Rasson, B.N. Ratcliff, R. Reif, X. Sarazin, M.H. Schune, J. Schwiening, S. Sen, S. Shapiro, M. Sokoloff, H. Staengle, P. Stiles, J.D. Taylor, D. Therville, E. Torassa, G. Vasileiadis, G. Vasseur, J. Va'vra, M. Verderi, D. Warner, T.F. Weber, W. Wenzel, R. Wilson, G. Wormser, Ch. Yèche and M. Zito, Test of a large scale prototype of the DIRC, a Čherenkov imaging detector based on total internal reflection for BABAR at PEP-II . . . 397 (1997) 261
Alekseev, I.E., A.E. Antropov, S.I. Bondarevsky, Ya.I. Makarychev, E.R. Notkin and V.V. Yeryomin, Mössbauer spectroscopy investigations and behaviour of impurity atoms in irradiated metallic targets . . . 397 (1997) 177
Amerman, L., see Aleksan, R. . . . 397 (1997) 261
Antropov, A.E., see Gedeonov, A.D. . . . 397 (1997) 117
Antropov, A.E., see Alekseev, I.E. . . . 397 (1997) 177
Archambault, L.F., see Maddi, J.A. . . . 397 (1997) 209
Aston, D., see Aleksan, R. . . . 397 (1997) 261
Austin, S.M., see Daito, I. . . . 397 (1997) 465
Avasthi, D.K., see Mandal, S. . . . 397 (1997) 59
Ayers, J.J., see Maddi, J.A. . . . 397 (1997) 209

Bartos Jr. J.J., see Gobby, P.L. . . . 397 (1997) 183
Batchelder, J.C., see Rowe, M.W. . . . 397 (1997) 292
Bazin, D., see Daito, I. . . . 397 (1997) 465
Benkebil, M., see Aleksan, R. . . . 397 (1997) 261
Berg, G.P.A., see Daito, I. . . . 397 (1997) 465
Bergmaier, A., see Maier-Komor, P. . . . 397 (1997) 131
Bergmaier, A., see Maier-Komor, P. . . . 397 (1997) 194
Bergman, J., see Tárkányi, F. . . . 397 (1997) 119
Besson, P., see Aleksan, R. . . . 397 (1997) 261
Bieber, R., see Wagemans, C. . . . 397 (1997) 22
Blanc, R., M. Bouriant and J.P. Richaud, A new semiautomatic system to produce carbon foils in the thickness range from 200 $\mu g/cm^2$ to $> 3\ mg/cm^2$ . . . 397 (1997) 146
Bondarevsky, S.I., see Alekseev, I.E. . . . 397 (1997) 177
Bonneaud, G., see Aleksan, R. . . . 397 (1997) 261
Botelho, S., see Ueta, N. . . . 397 (1997) 163
Bourgeois, Ph., see Aleksan, R. . . . 397 (1997) 261
Bouriant, M., see Blanc, R. . . . 397 (1997) 146
Bowman, J.D., see Yen, Y.-F. . . . 397 (1997) 365
Brady, F.P. and J. Dunn, Analytical calculation of dE/dx cluster-charge loss due to threshold effects . . . 397 (1997) 475
Brown, D., see Aleksan, R. . . . 397 (1997) 261
Brown, J.A., see Daito, I. . . . 397 (1997) 465
Buklanov, G.V., see Lobanov, Yu.V. . . . 397 (1997) 26

0168-9002/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved

Buklanov, G.V., see Dmitriev, S.N. 397 (1997) 125
Busch, H., K.-H. Speidel, R. Ernst, A. Gohla, U. Grabowy, G. Jakob, L. Kleinen, V. Roth, J. Gerber, A. Méens and P. Veillet, Preparation and properties of segmented Fe targets for transient-field measurements 397 (1997) 105
Busch, H., see Kleinen, L. 397 (1997) 52
Bush Jr., H., see Gobby, P.L. 397 (1997) 183

Castoldi, A. and C. Fiorini, Silicon devices for low-energy X-ray detection: Comparison between the charge-coupled device and the semiconductor drift chamber 397 (1997) 332
Cerny, J., see Rowe, M.W. 397 (1997) 292
Chamon, L.C., see Ueta, N. 397 (1997) 163
Chauveau, J., see Aleksan, R. 397 (1997) 261
Chen, P., T. Ohgaki, A. Spitkovsky, T. Takahashi and K. Yokoya, Simulations of the interaction region in a photon-photon collider 397 (1997) 458
Ciocio, A., see Aleksan, R. 397 (1997) 261
Cizeron, R., see Aleksan, R. 397 (1997) 261
Clinthorne, N.H., see Gormley, J.E. 397 (1997) 440
Collins, E.D., see Aaron, W.S. 397 (1997) 9
Csikai, J., S. Szegedi, L. Oláh, S.M. Ibrahim, A.M. El-Megrab, N.I. Molla, M.M. Rahman, R.U. Miah, F. Habbani and I. Shaddad, Production of solid deuterium targets by ion implantation 397 (1997) 75

Daito, I., H. Akimune, S.M. Austin, D. Bazin, G.P.A. Berg, J.A. Brown, B.S. Davids, Y. Fujita, H. Fujimura, M. Fujiwara, R. Hazama, T. Inomata, K. Ishibashi, J., Jänecke, S. Nakayama, K. Pham, D.A. Roberts, B.M. Sherrill, M. Steiner, A. Tamii, M. Tanaka, H. Toyokawa and M. Yosoi, (t, ^{3}He) Reaction; New tool for studying spin-isospin excitations in neutron rich nuclei 397 (1997) 465
Davids, B.S., see Daito, I. 397 (1997) 465
Day, R.D., see Gobby, P.L. 397 (1997) 183
Deák, F., see Wang, J. 397 (1997) 380
Dean, A., see Ingelbrecht, C. 397 (1997) 34
Del Buono, L., see Aleksan, R. 397 (1997) 261
De Lesquen, A., see Aleksan, R. 397 (1997) 261
Denecke, B., see Wagemans, C. 397 (1997) 22
DiNardo, R., see Liechtenstein, V.Kh. 397 (1997) 140
Dmitriev, S.N., N.G. Zaitseva, G.Ya. Starodub, O.D. Maslov, S.V. Shishkin, T.V. Shishkina, G.V. Buklanov and A.V. Sabelnikov, High-purity radionuclide production: material, construction, target chemistry for ^{26}Al, ^{97}Ru, ^{178}W, ^{235}Np, ^{236,237}Pu 397 (1997) 125
Döbeli, M., see Liechtenstein, V.Kh. 397 (1997) 140
Dollinger, G., see Maier-Komor, P. 397 (1997) 131
Dollinger, G., see Maier-Komor, P. 397 (1997) 194
Dubey, B.P., S.K. Kataria and A.K. Mohanty, Neural network fits to neutron induced reactions using weighted least-mean-squares 397 (1997) 426
Dunn, J., see Brady, F.P. 397 (1997) 475
Dzhelyadin, R.I., see Konstantinov, V.F., ... 397 (1997) 283

Egan, D., see Ingelbrecht, C. 397 (1997) 30
El-Megrab, A.M., see Csikai, J. 397 (1997) 75
Emery, S., see Aleksan, R. 397 (1997) 261
Engel, W.G.P., see Ueta, N. 397 (1997) 163
Ernst, R., see Kleinen, L. 397 (1997) 52
Ernst, R., see Busch, H. 397 (1997) 105
Eykens, R., see Ingelbrecht, C. 397 (1997) 34

Fehrenbacher, G., R. Meckbach and H.G. Paretzke, Fast neutron detection with germanium detectors: Unfolding the 692 keV peak response for fission neutron spectra 397 (1997) 391
Feigenbaum, I., see Liechtenstein, V.Kh. 397 (1997) 140
Fiorini, C., see Castoldi, A. 397 (1997) 332
Folger, H., W. Hartmann, J. Klemm, B. Lommel and W. Thalheimer, Computer-controlled preparation of thin tungsten layers 397 (1997) 55
Fonte, P., see Peskov, V. 397 (1997) 243
Foreman, L.R., see Gobby, P.L. 397 (1997) 183
Frey, C.M., see Maier-Komor, P. 397 (1997) 131
Friebel, H.U., see Grossmann, R. 397 (1997) 39

Friese, J., see Maier-Komor, P. 397 (1997) 194
Frischke, D., see Stephan, K.-H. 397 (1997) 150
Fujimura, H., see Daito, I. 397 (1997) 465
Fujita, Y., see Daito, I. 397 (1997) 465
Fujiwara, M., see Daito, I. 397 (1997) 465

Gaidot, A., see Aleksan, R. 397 (1997) 261
Gál, J., G. Hegyesi, G. Kalinka, B.M. Nyakó and A. Kerek, On the noise performance of a novel delay-switched gated integrator 397 (1997) 399
Galonsky, A., see Wang, J. 397 (1997) 380
Garcia, F.P., see Gobby, P.L. 397 (1997) 183
Gedeonov, A.D., A.E. Antropov and V.Yu. Skhroev, ^{153}Gd production in the ^{151}Eu(α, 2n)^{153}Tb → ^{153}Gd reaction 397 (1997) 117
Geltenbort, P., see Wagemans, C. 397 (1997) 22
Gerber, J., see Kleinen, L. 397 (1997) 52
Gerber, J., see Busch, H. 397 (1997) 105
Gobby, P.L., L.J. Salzer, R.D. Day, J.J. Bartos Jr., G. Rivera, D.J. Hatch, F.P. Garcia, R. Manzanares, L.R. Foreman and H. Bush Jr., Micromachining of inertial confinement fusion targets 397 (1997) 183
Gohla, A., see Kleinen, L. 397 (1997) 52
Gohla, A., see Busch, H. 397 (1997) 105
Gormley, J.E., W.L. Rogers, N.H. Clinthorne, D.K. Wehe and G.F. Knoll, Experimental comparison of mechanical and electronic gamma-ray collimation 397 (1997) 440
Gosset, L., see Aleksan, R. 397 (1997) 261
Grabowy, U., see Kleinen, L. 397 (1997) 52
Grabowy, U., see Busch, H. 397 (1997) 105
Greene, J.P., J. Nemanich, G.E. Thomas and S.L. Schiel, Noble gas sputtering calculations using TRIM 397 (1997) 91
Greene, J.P., G.E. Thomas and S.L. Schiel, Novel uses of a wide-beam saddle-field ion source for producing targets at the Argonne National Laboratory 397 (1997) 99
Grossmann, R., H.J. Maier and H.U. Friebel, The new hot-lab facility for radioactive target preparation at the University of Munich 397 (1997) 39

Habbani, F., see Csikai, J. 397 (1997) 75
Hale, D., see Aleksan, R. 397 (1997) 261
Hamanaka, S., see Wen, X-q. 397 (1997) 478
Hamel de Monchenault, G., see Aleksan, R. 397 (1997) 261
Hamon, O., see Aleksan, R. 397 (1997) 261
Hartmann, W., see Folger, H. 397 (1997) 55
Hasai, H., see Wen, X-q. 397 (1997) 478
Hatch, D.J., see Gobby, P.L. 397 (1997) 183
Hatsukawa, Y., see Kidera, M. 397 (1997) 304
Hattori, T., see Sugai, I. 397 (1997) 137
Hazama, R., see Daito, I. 397 (1997) 465
Hearty, C., see Aleksan, R. 397 (1997) 261
Hegyesi, G., see Gál, J. 397 (1997) 399
Heselius, S.-J., see Tárkányi, F. 397 (1997) 119
Hinn, G.M. and B.K. Nelson, Production and analysis of repetitive sub-boiling laboratory reagents for purity enhancement 397 (1997) 189
Hirschinger, M.L., see Stephan, K.-H. 397 (1997) 150
Hock, J.C., see Mausner, L.F. 397 (1997) 18
Hoefman, M., see Wissink, L. 397 (1997) 472
Horváth, Á., see Wang, J. 397 (1997) 380
Hurley, D., see Perillo Isaac, M.C. 397 (1997) 310

Ibrahim, S.M., see Csikai, J. 397 (1997) 75
Ieki, K., see Wang, J. 397 (1997) 380
Ingelbrecht, C., D. Egan, F. Peetermans and A. Verbruggen, New U/Pu metallic spikes for safeguards accountancy measurements at reprocessing plants 397 (1997) 30
Ingelbrecht, C., A. Moens, R. Eykens and A. Dean, Improved electrodeposited actinide layers 397 (1997) 34
Inomata, T., see Daito, I. 397 (1997) 465
Ishibashi, K., see Daito, I. 397 (1997) 465

Ivkova, T.M., see Liechtenstein, V.Kh. 397 (1997) 140
Iwata, Y., see Wang, J. 397 (1997) 380
Iwatani, K., see Wen, X-q. 397 (1997) 478

Jakob, G., see Kleinen, L. 397 (1997) 52
Jakob, G., see Busch, H. 397 (1997) 105
Jänecke, J., see Daito, I. 397 (1997) 465
Jouenne, A., see Aleksan, R. 397 (1997) 261

Kabiraj, D., see Mandal, S. 397 (1997) 59
Kadyk, J., see Aleksan, R. 397 (1997) 261
Kalinka, G., see Gál, J. 397 (1997) 399
Karsch, S., see Maier-Komor, P. 397 (1997) 194
Katagiri, M., see Kidera, M. 397 (1997) 304
Kataria, S.K., see Dubey, B.P. 397 (1997) 426
Kawahara, H., see Aleksan, R. 397 (1997) 261
Kawakami, H., see Sugai, I. 397 (1997) 137
Kawasaki, K., see Sugai, I. 397 (1997) 137
Kerek, A., see Gál, J. 397 (1997) 399
Kidera, M., M. Oshima, M. Katagiri, Y. Hatsukawa and T. Morikawa, Development of a compact multi-electron detector for in-beam spectroscopy 397 (1997) 304
Kienle, P., see Maier-Komor, P. 397 (1997) 194
Kishimoto, S., Behavior of a fast counting system with an avalanche photodiode detector for synchrotron X-rays 397 (1997) 343
Kiss, Á., see Wang, J. 397 (1997) 380
Kleinen, L., K.-H. Speidel, H. Busch, R. Ernst, A. Gohla, U. Grabowy, G. Jakob, V. Roth, J. Gerber, A. Méens, P. Maier-Komor and P. Scharwaechter, Amorphous Fe targets for transient field measurements with heavy-ion beams 397 (1997) 52
Kleinen, L., see Busch, H. 397 (1997) 105
Klemm, J., see Folger, H. 397 (1997) 55
Knoll, G.F., see Gormley, J.E. 397 (1997) 440
Kolodziejczak, J.J., see Peskov, V. 397 (1997) 243
Konstantinov, V.F., R.N. Krasnokutsky, R.S. Shuvalov, A.A. Solodkov, E.A. Starchenko, V.V. Sushkov, A.M. Zaitsev, R.I. Dzhelyadin, S.V. Kopikov and O.V. Solovyanov, Beam tests of "SPACAL"-type modules for a high-pressure gas calorimeter 397 (1997) 283
Kopikov, S.V., see Konstantinov, V.F., ... 397 (1997) 283
Körner, H.J., see Maier-Komor, P. 397 (1997) 131
Körner, H.J., see Maier-Komor, P. 397 (1997) 194
Kouzmine, R.N., Ju.D. Pigarov, L.I. Staroverov and V.M. Tchesnokov, Production of highly enriched isotopes at the electromagnetic plants with high dispersion 397 (1997) 13
Krammer, M. and H. Pernegger, Signal collection and position reconstruction of silicon strip detectors with 200 μm readout pitch 397 (1997) 232
Krasnokutsky, R.N., see Konstantinov, V.F., ... 397 (1997) 283
Krueger, H., see Aleksan, R. 397 (1997) 261
Kruse, J.J., see Wang, J. 397 (1997) 380

Lai, R. and A.J. Sievers, On using the coherent far IR radiation produced by a charged-particle bunch to determine its shape: I Analysis 397 (1997) 221
Lebeau, M., G. Majni, N. Paone and D. Rinaldi, Photoelasticity for the investigation of internal stress in BGO scintillating crystals 397 (1997) 317
Lebedev, S.G., Limitation factors of targets behaviour in accelerator experiments 397 (1997) 172
Liechtenstein, V.Kh., T.M. Ivkova, E.D. Olshanski, I. Feigenbaum, R. DiNardo and M. Döbeli, Preparation and evaluation of thin diamond-like carbon foils for heavy-ion tandem accelerators and time-of-flight spectrometers 397 (1997) 140
Lobanov, Yu.V., G.V. Buklanov, F.Sh. Abdullin, A.N. Polyakov, I.V. Shirokovsky, Yu.S. Tsyganov and V.K. Utyonkov, Targets of uranium, plutonium, and curium for heavy-element research 397 (1997) 26
Loiselet, M., see Wagemans, C. 397 (1997) 22
Lommel, B., see Folger, H. 397 (1997) 55
London, G., see Aleksan, R. 397 (1997) 261
Long, M., see Aleksan, R. 397 (1997) 261

Lowie, L.Y., see Yen, Y.-F. 397 (1997) 365
Lozowski, W.R., Preparation of a $^{6}Li_{0.74}Mg_{0.26}$ alloy target 397 (1997) 46
Lu, A., see Aleksan, R. 397 (1997) 261
Lutz, A.M., see Aleksan, R. 397 (1997) 261
Lynch, G., see Aleksan, R. 397 (1997) 261

Maddi, J.A., M.A. Stoyer, L.F. Archambault, J.J. Ayers and J.M. Nitschke, High power target measurements and finite element calculations for ISL targets 397 (1997) 209
Maier, H.J., Preparation of ^{180}Ta targets by high vacuum evaporation–condensation 397 (1997) 110
Maier, H.J., see Grossmann, R. 397 (1997) 39
Maier, H.J., see Stephan, K.-H. 397 (1997) 150
Maier-Komor, P., A. Bergmaier, G. Dollinger, C.M. Frey and H.J. Körner, Improvement of the preparation procedure of carbon stripper foils from the laser plasma ablation–deposition process 397 (1997) 131
Maier-Komor, P., A. Bergmaier, G. Dollinger, J. Friese, S. Karsch, P. Kienle and H.J. Körner, An UHV box coater for VUV reflective coatings on mirrors substrates of up to 95 cm in diameter 397 (1997) 194
Maier-Komor, P., see Kleinen, L. 397 (1997) 52
Majni, G., see Lebeau, M. 397 (1997) 317
Makarychev, Ya.I., see Alekseev, I.E. 397 (1997) 177
Mandal, S., D. Kabiraj and D.K. Avasthi, Preparation and characterization of a sandwiched target of enriched neodymium oxide 397 (1997) 59
Manzanares, R., see Gobby, P.L. 397 (1997) 183
Maslov, O.D., see Dmitriev, S.N. 397 (1997) 125
Masuda, Y., see Yen, Y.-F. 397 (1997) 365
Mausner, L.F. and J.C. Hock, Target design considerations for isotope production with high intensity 200 MeV protons 397 (1997) 18
McDonald, R.J., see Perillo Isaac, M.C. 397 (1997) 310
McShurley, D., see Aleksan, R. 397 (1997) 261
Meadows, B., see Aleksan, R. 397 (1997) 261
Meckbach, R., see Fehrenbacher, G. 397 (1997) 391
Medina, N.H., see Ueta, N. 397 (1997) 163
Méens, A., M.-P. Nicoli and D. Raiser, Self-supporting beryllium oxide targets 397 (1997) 64
Méens, A., see Kleinen, L. 397 (1997) 52
Méens, A., see Busch, H. 397 (1997) 105
Miah, R.U., see Csikai, J. 397 (1997) 75
Mitchell, G.E., see Yen, Y.-F. 397 (1997) 365
Moens, A., see Ingelbrecht, C. 397 (1997) 34
Mohanty, A.K., see Dubey, B.P. 397 (1997) 426
Molla, N.I., see Csikai, J. 397 (1997) 75
Moltz, D.M., see Rowe, M.W. 397 (1997) 292
Morikawa, T., see Kidera, M. 397 (1997) 304
Morishima, N. and Y. Abe, Evaluation of cold-neutron scattering cross sections for liquid ^{4}He at temperatures between 1 and 4.2 K 397 (1997) 354

Nakayama, S., see Daito, I. 397 (1997) 465
Nelson, B.K., see Hinn, G.M. 397 (1997) 189
Nemanich, J., see Greene, J.P. 397 (1997) 91
Nicoli, M.-P., see Méens, A. 397 (1997) 64
Nitschke, J.M., see Maddi, J.A. 397 (1997) 209
Nohtomi, A., see Sakae, T. 397 (1997) 323
Noppe, J.M., see Aleksan, R. 397 (1997) 261
Norman, E.B., see Perillo Isaac, M.C. 397 (1997) 310
Notkin, E.R., see Alekseev, I.E. 397 (1997) 177
Nyakó, B.M., see Gál, J. 397 (1997) 399

Ognibene, T.J., see Rowe, M.W. 397 (1997) 292
Ohgaki, T., see Chen, P. 397 (1997) 458
Oláh, L., see Csikai, J. 397 (1997) 75
Olshanski, E.D., see Liechtenstein, V.Kh. 397 (1997) 140
Oshima, M., see Kidera, M. 397 (1997) 304
Oyaizu, M., see Sugai, I. 397 (1997) 137

Paone, N., see Lebeau, M. 397 (1997) 317
Paretzke, H.G., see Fehrenbacher, G. 397 (1997) 391
Pasquetto, E., see Aleksan, R. 397 (1997) 261
Peetermans, F., see Ingelbrecht, C. 397 (1997) 30
Penttila, S.I., see Yen, Y.-F. 397 (1997) 365
Pereira, D., see Ueta, N. 397 (1997) 163
Perillo Isaac, M.C., D. Hurley, R.J. McDonald, E.B. Norman and A.R. Smith, A natural calibration source for determining germanium detector efficiencies 397 (1997) 310
Pernegger, H., see Krammer, M. 397 (1997) 232
Peskov, V., B.D. Ramsey, J.J. Kolodziejczak and P. Fonte, Feedback and breakdowns in microstrip gas counters 397 (1997) 243
Pham, K., see Daito, I. 397 (1997) 465
Pigarov, Ju.D., see Kouzmine, R.N. 397 (1997) 13
Plaszczynski, S., see Aleksan, R. 397 (1997) 261
Polyakov, A.N., see Lobanov, Yu.V. 397 (1997) 26
Pope, W., see Aleksan, R. 397 (1997) 261
Pressyanov, D.S., Integrated measurements of ^{218}Po, ^{214}Pb and ^{214}Bi + ^{214}Po in air under environmental concentrations – mathematical supplement 397 (1997) 435
Pressyanov, D.S., Integrated measurements of ^{218}Po, ^{214}Pb and ^{214}Bi + ^{214}Po in air under environmental concentrations 397 (1997) 448
Pripstein, M., see Aleksan, R. 397 (1997) 261
Przybylski, G., see Aleksan, R. 397 (1997) 261
Pullia, A., How to derive the optimum filter in presence of arbitrary noises, time-domain constraints, and shaped input signals: A new method 397 (1997) 414

Rahman, M.M., see Csikai, J. 397 (1997) 75
Raiser, D., see Méens, A. 397 (1997) 64
Ramsey, B.D., see Peskov, V. 397 (1997) 243
Rasson, J., see Aleksan, R. 397 (1997) 261
Ratcliff, B.N., see Aleksan, R. 397 (1997) 261
Reher, D., see Wagemans, C. 397 (1997) 22
Reif, R., see Aleksan, R. 397 (1997) 261
Ribas, R.V., see Ueta, N. 397 (1997) 163
Richaud, J.P., see Blanc, R. 397 (1997) 146
Rinaldi, D., see Lebeau, M. 397 (1997) 317
Rivera, G., see Gobby, P.L. 397 (1997) 183
Roberts, D.A., see Daito, I. 397 (1997) 465
Rogers, W.L., see Gormley, J.E. 397 (1997) 440
Roth, V., see Kleinen, L. 397 (1997) 52
Roth, V., see Busch, H. 397 (1997) 105
Rowe, M.W., D.M. Moltz, J.C. Batchelder, T.J. Ognibene, R.J. Tighe and J. Cerny, Development and characterization of a low-energy particle-identification telescope array for proton and alpha spectroscopy 397 (1997) 292

Sabelnikov, A.V., see Dmitriev, S.N. 397 (1997) 125
Sakae, T. and A. Nohtomi, Calculation of field distortion by a large-gained avalanche in a gas counter 397 (1997) 323
Salzer, L.J., see Gobby, P.L. 397 (1997) 183
Sarazin, X., see Aleksan, R. 397 (1997) 261
Scharwaechter, P., see Kleinen, L. 397 (1997) 52
Schiel, S.L., see Greene, J.P. 397 (1997) 91
Schiel, S.L., see Greene, J.P. 397 (1997) 99
Schune, M.H., see Aleksan, R. 397 (1997) 261
Schwiening, J., see Aleksan, R. 397 (1997) 261
Seip, M., see Wissink, L. 397 (1997) 472
Sen, S., see Aleksan, R. 397 (1997) 261
Seres, Z., see Wang, J. 397 (1997) 380
Shaddad, I., see Csikai, J. 397 (1997) 75
Shapiro, S., see Aleksan, R. 397 (1997) 261
Sherrill, B.M., see Daito, I. 397 (1997) 465
Shirokovsky, I.V., see Lobanov, Yu.V. 397 (1997) 26
Shishkin, S.V., see Dmitriev, S.N. 397 (1997) 125
Shishkina, T.V., see Dmitriev, S.N. 397 (1997) 125

Shizuma, K., see Wen, X-q. 397 (1997) 478
Shuvalov, R.S., see Konstantinov, V.F., ... 397 (1997) 283
Sievers, A.J., see Lai, R. 397 (1997) 221
Skhroev, V.Yu., see Gedeonov, A.D. 397 (1997) 117
Smith, A.R., see Perillo Isaac, M.C. 397 (1997) 310
Sokoloff, M., see Aleksan, R. 397 (1997) 261
Solin, O., see Tárkányi, F. 397 (1997) 119
Solodkov, A.A., see Konstantinov, V.F., ... 397 (1997) 283
Soloviev, S.M., Calibration of heavy-element nuclear targets by Rutherford backscattering of alpha-particles 397 (1997) 159
Solovyanov, O.V., see Konstantinov, V.F., ... 397 (1997) 283
Speidel, K.-H., see Kleinen, L. 397 (1997) 52
Speidel, K.-H., see Busch, H. 397 (1997) 105
Spitkovsky, A., see Chen, P. 397 (1997) 458
Staengle, H., see Aleksan, R. 397 (1997) 261
Starchenko, E.A., see Konstantinov, V.F., ... 397 (1997) 283
Starodub, G.Ya., see Dmitriev, S.N. 397 (1997) 125
Staroverov, L.I., see Kouzmine, R.N. 397 (1997) 13
Steiner, M., see Daito, I. 397 (1997) 465
Steinhof, A., Focusing of neutrons and ^{3}He atomic beams with hexapole magnets 397 (1997) 371
Stephan, K.-H., M.L. Hirschinger, H.J. Maier and D. Frischke, Characterization of thin films by X-ray transmission measurements 397 (1997) 150
Stiles, P., see Aleksan, R. 397 (1997) 261
Stolarz, A., The powder targets of hard materials for neutron halo studies 397 (1997) 114
Stoner Jr., J.O., Large-area beryllium metal foils 397 (1997) 68
Stoyer, M.A., see Maddi, J.A. 397 (1997) 209
Sugai, I., An application of a new type deposition method to nuclear target preparation 397 (1997) 81
Sugai, I., M. Oyaizu, H. Kawakami, T. Hattori, H. Tomizawa and K. Kawasaki, Carbon stripper foil preparation by ion beam sputtering with 3.5 keV Kr ions 397 (1997) 137
Sushkov, V.V., see Konstantinov, V.F., ... 397 (1997) 283
Szegedi, S., see Csikai, J. 397 (1997) 75

Takács, S., see Tárkányi, F. 397 (1997) 119
Takahashi, T., see Chen, P. 397 (1997) 458
Tárkányi, F., S. Takács, S.-J. Heselius, O. Solin and J. Bergman, Static and dynamic effects in gas targets used for medical isotope production 397 (1997) 119
Tamii, A., see Daito, I. 397 (1997) 465
Tanaka, H., see Daito, I. 397 (1997) 465
Taylor, J.D., see Aleksan, R. 397 (1997) 261
Tchesnokov, V.M., see Kouzmine, R.N. 397 (1997) 13
Thalheimer, W., see Folger, H. 397 (1997) 55
Therville, D., see Aleksan, R. 397 (1997) 261
Thomas, G.E., see Greene, J.P. 397 (1997) 91
Thomas, G.E., see Greene, J.P. 397 (1997) 99
Tighe, R.J., see Rowe, M.W. 397 (1997) 292
Tomizawa, H., see Sugai, I. 397 (1997) 137
Torassa, E., see Aleksan, R. 397 (1997) 261
Toyokawa, H., see Daito, I. 397 (1997) 465
Tracy, J.G., see Aaron, W.S. 397 (1997) 9
Tsyganov, Yu.S., see Lobanov, Yu.V. 397 (1997) 26
Turkentine, R.B. and D.C. Weisser, Target-making in the Nuclear Physics Department at the Australian National University 397 (1997) 200

Ueta, N., W.G.P. Engel, N.H. Medina, D. Pereira, L.C. Chamon, S. Botelho and R.V. Ribas, Target characteristics and the precision of nuclear measurements 397 (1997) 163
Utyonkov, V.K., see Lobanov, Yu.V. 397 (1997) 26

Vasileiadis, G., see Aleksan, R. 397 (1997) 261
Vasseur, G., see Aleksan, R. 397 (1997) 261
Va'vra, J., see Aleksan, R. 397 (1997) 261

Veillet, P., see Busch, H. 397 (1997) 105
Verbruggen, A., see Ingelbrecht, C. 397 (1997) 30
Verderi, M., see Aleksan, R. 397 (1997) 261

Wagemans, C., M. Loiselet, R. Bieber, B. Denecke, D. Reher and P. Geltenbort, Preparation, characterization and testing of implanted ^{37}Ar-layers 397 (1997) 22
Wang, J., A. Galonsky, J.J. Kruse, P.D. Zecher, F. Deák, Á. Horváth, Á. Kiss, Z. Seres, K. Ieki and Y. Iwata, Neutron cross-talk in a multi-detector system 397 (1997) 380
Warner, D., see Aleksan, R. 397 (1997) 261
Weber, T.F., see Aleksan, R. 397 (1997) 261
Wehe, D.K., see Gormley, J.E. 397 (1997) 440
Wei, Y.-q., see Xu, G.-j. 397 (1997) 62
Weisser, D.C., see Turkentine, R.B. 397 (1997) 200
Wen, X.-q., K. Shizuma, S. Hamanaka, K. Iwatani and H. Hasai, Half-lives of isomeric levels of ^{87m}Sr, ^{111m}Cd, ^{113m}In and ^{115m}In activated by ^{60}Co γ-ray irradiation 397 (1997) 478
Wenzel, W., see Aleksan, R. 397 (1997) 261
Wilschut, H.W., see Wissink, L. 397 (1997) 472
Wilson, R., see Aleksan, R. 397 (1997) 261
Wissink, L., M. Hoefman, M. Seip and H.W. Wilschut, Particle identification in phoswich detectors by signal width measurement 397 (1997) 472
Wormser, G., see Aleksan, R. 397 (1997) 261

Xu, G.-j. and Wei, Y.-q., The preparation of self-supporting boron targets 397 (1997) 62

Yéche, Ch., see Aleksan, R. 397 (1997) 261
Yen, Y.-F., J.D. Bowman, L.Y. Lowie, Y. Masuda, G.E. Mitchell and S.I. Penttila, Determination of the gamma-ray background in a pulsed epithermal neutron beam 397 (1997) 365
Yeryomin, V.V., see Alekseev, I.E. 397 (1997) 177
Yokoya, K., see Chen, P. 397 (1997) 458
Yosoi, M., see Daito, I. 397 (1997) 465

Zaitsev, A.M., see Konstantinov, V.F., ... 397 (1997) 283
Zaitseva, N.G., see Dmitriev, S.N. 397 (1997) 125
Zecher, P.D., see Wang, J. 397 (1997) 380
Zito, M., see Aleksan, R. 397 (1997) 261

Nuclear Instruments and Methods in Physics Research A 397 (1997) 491–494

ELSEVIER

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Subject index

Accelerators, Beam Handling and Targets

Proceedings of the 18th World Conference of the International Nuclear Target Development Society on Nuclear Targets: Theory, Practice, Behavior, Studies (Strasbourg, France, October 7–11, 1996)

History

History of target making activities at ORNL from 1957 to 1996, H.L. Adair 397 (1997) 1

Section I. Isotope production

Status of stable isotope enrichment, products, and services at the Oak Ridge National Laboratory, W.S. Aaron, J.G. Tracy and E.D. Collins 397 (1997) 9
Production of highly enriched isotopes at the electromagnetic plants with high dispersion, R.N. Kouzmine, Ju.D. Pigarov, L.I. Staroverov and V.M. Tchesnokov 397 (1997) 13
Target design considerations of isotope production with high intensity 200 MeV protons, L.F. Mausner and J.C. Hock 397 (1997) 18
Preparation, characterization and testing of implanted ^{37}Ar-layers, C. Wagemans, M. Loiselet, R. Bieber, B. Denecke, D. Reher and P. Geltenbort 397 (1997) 22

Section II. Radioactive target preparation

Targets of uranium plutonium and curium for heavy-element research, Yu.V. Lobanov, G.V. Buklanov, F.Sh. Abdullin, A.N. Polyakov, I.V. Shirokovsky, Yu.S. Tsyganov and V.K. Utyonkov 397 (1997) 26
New U/Pu metallic spikes for safeguards accountancy measurements at reprocessing plants, C. Ingelbrecht, D. Egan, F. Peetermans and A. Verbruggen 397 (1997) 30
Improved electrodeposited actinide layers, C. Ingelbrecht, A. Moens, R. Eykens and A. Dean 397 (1997) 34
The new hot-lab facility for radioactive target preparation at the University of Munich, R. Grossmann, H.J. Maier and H.U. Friebel 397 (1997) 39

Section III. Special targets

Preparation of a $^{6}Li_{0.74}Mg_{0.26}$ alloy target, W.R. Lozowski 397 (1997) 46
Amorphous Fe targets for transient field measurements with heavy-ion beams, L. Kleinen, K.-H. Speidel, H. Busch, R. Ernst, A. Gohla, U. Grabowy, G. Jakob, V. Roth, J. Gerber, A. Méens, P. Maier-Komor and P. Scharwaechter 397 (1997) 52
Computer-controlled preparation of thin tungsten layers, H. Folger, W. Hartmann, J. Klemm, B. Lommel and W. Thalheimer 397 (1997) 55
Preparation and characterization of a sandwiched target of enriched neodymium oxide, S. Mandal, D. Kabiraj and D.K. Avasthi 397 (1997) 59
The preparation of self-supporting boron targets, Xu Guo-ji and Wei Yong-qin 397 (1997) 62
Self-supporting beryllium oxide targets, A. Méens, M.-P. Nicoli and D. Raiser 397 (1997) 64
Large-area beryllium metal foils, J.O. Stoner Jr 397 (1997) 68
Production of solid deuterium targets by ion implantation, J. Csikai, S. Szegedi, L. Oláh, S.M. Ibrahim, A.M. El-Megrab, N.I. Molla, M.M. Rahman, R.U. Miah, F. Habbani and I. Shaddad 397 (1997) 75
An application of a new type deposition method to nuclear target preparation, I. Sugai 397 (1997) 81
Noble gas sputtering calculations using TRIM, J.P. Greene, J. Nemanich, G.E. Thomas and S.L. Schiel 397 (1997) 91

0168-9002/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved

Novel uses of a wide-beam saddle-field ion source for producing targets at the Argonne National Laboratory, J.P. Greene, G.E. Thomas and S.L. Schiel 397 (1997) 99
Preparation and properties of segmented Fe targets for transient-field measurements, H. Busch, K.-H. Speidel, R. Ernst, A. Gohla, U. Grabowy, G. Jakob, L. Kleinen, V. Roth, J. Gerber, A. Mêens and P. Veillet 397 (1997) 105
Preparation of ^{180}Ta targets by high vacuum evaporation-condensation, H.J. Maier 397 (1997) 110
The powder targets of hard materials for neutron halo studies, A. Stolarz 397 (1997) 114

Section IV. Medical radionuclides and calculations

^{153}Gd production in the ^{151}Eu(α, 2n)^{153}Tb → ^{153}Gd reaction, A.D. Gedeonov, A.E. Antropov and V. Yu. Skhroev 397 (1997) 117
Static and dynamic effects in gas targets used for medical isotope production, F. Tárkányi, S. Takács, S.-J. Heselius, O. Solin and J. Bergman 397 (1997) 119
High-purity radionuclide production: material, construction, target chemistry for ^{26}Al, ^{97}Ru, ^{178}W, ^{235}Np, ^{236,237}Pu, S.N. Dmitriev, N.G. Zaitseva, G.Ya. Starodub, O.D. Maslov, S.V. Shishkin, T.V. Shishkina, G.V. Buklanov and A.V. Sabelnikov 397 (1997) 125

Section V. Stripper foils

Improvement of the preparation procedure of carbon stripper foils from the laser plasma ablation deposition process, P. Maier-Komor, A. Bergmaier, G. Dollinger, C.M. Frey and H.J. Körner 397 (1997) 131
Carbon stripper foil preparation by ion beam sputtering with 3.5 keV Kr ions, I. Sugai, M. Oyaizu, H. Kawakami, T. Hattori, H. Tomizawa and K. Kawasaki 397 (1997) 137
Preparation and evaluation of thin diamond-like carbon foils for heavy-ion tandem accelerators and time-of-flight spectrometers, V.Kh. Liechtenstein, T.M. Ivkova, E.D. Olshanski, I. Feigenbaum, R. DiNardo and M. Döbeli 397 (1997) 140
A new semiautomatic system to produce carbon foils in the thickness range from 200 μg/cm^2 to >3 mg/cm^2, R. Blanc, M. Bouriant and J.P. Richaud 397 (1997) 146

Section VI. Characterization and investigations

Characterization of thin films by X-ray transmission measurements, K.-H. Stephan, M.L. Hirschinger, H.J. Maier and D. Frischke 397 (1997) 150
Calibration of heavy-element nuclear targets by Rutherford backscattering of alpha-particles, S.M. Soloviev 397 (1997) 159
Target characteristics and the precision of nuclear measurement, N. Ueta, W.G.P. Engel, N.H. Medina, D. Pereira, L.C. Chamon, S. Botelho and R.V. Ribas 397 (1997) 163
Limitation factors of targets behaviour in accelerator experiments, S.G. Lebedev 397 (1997) 172

Section VII. Miscellaneous targets and techniques

Mössbauer spectroscopy investigations and behaviour of impurity atoms in irradiated metallic targets, I.E. Alekseev, A.E. Antropov, S.I. Bondarevsky, Ya.I. Makarychev, E.R. Notkin and V.V. Yeryomin 397 (1997) 177
Micromachining of inertial confinement fusion targets, P.L. Gobby, L.J. Slazer, R.D.Day, J.J. Bartos Jr., G. Rivera, D.J. Hatch, F.P. Garcia, R. Manzanares, L.R. Foreman and H. Bush Jr 397 (1997) 183
Production and analysis of repetitive sub-boiling laboratory reagents for purity enhancement, G.M. Hinn and B.K. Nelson 397 (1997) 189
An UHV box coater for VUV reflective coatings on mirror substrates up to 95 cm in diameter, P. Maier-Komor, A. Bergmaier, G. Dollinger, J. Friese, S. Karsch, P. Kienle and H.J. Körner 397 (1997) 194

Section VIII. Target laboratory report

Target-making in the Nuclear Physics Department at the Australian National University, R.B. Turkentine and D.C. Weisser 397 (1997) 200

High power target measurements and finite element calculations for ISL targets, J.A. Maddi, M.A. Stoyer, L.F. Archambault, J.J. Ayers and J.M. Nitschke 397 (1997) 209
On using the coherent far IR radiation produced by a charged-particle bunch to determine its shape: I Analysis, R. Lai and A.J. Sievers 397 (1997) 221

High Energy Physics Detectors

Signal collection and position reconstruction of silicon strip detectors with 200 μm readout pitch, M. Krammer and H. Pernegger 397 (1997) 232
Feedback and breakdowns in microstrip gas counters, V. Peskov, B.D. Ramsey, J.J. Kolodziejczak and P. Fonte 397 (1997) 243
Test of a large scale prototype of the DIRC, a Čherenkov imaging detector based on total internal reflection for BABAR at PEP-II, R. Aleksan, L. Amerman, D. Aston, M. Benkebil, P. Besson, G. Bonneaud, Ph. Bourgeois, D. Brown, J. Chauveau, A. Ciocio, R. Cizeron, A de Lesquen, L. del Buono, S. Emery, A. Gaidot, L. Gosset, D. Hale, G. Hamel de Monchenault, O. Hamon, C. Hearty, A. Jouenne, J. Kadyk, H. Kawahara, H. Krueger, G. London, M. Long, A. Lu, A.M. Lutz, G. Lynch, D. McShurley, B. Meadows, J.M. Noppe, E. Pasquetto, S. Plaszczynski, W. Pope, M. Pripstein, G. Przybylski, J. Rasson, B.N. Ratcliff, R. Reif, X. Sarazin, M.H. Schune, J. Schwiening, S. Sen, S. Shapiro, M. Sokoloff, H. Staengle, P. Stiles, J.D. Taylor, D. Therville, E. Torassa, G. Vasileiadis, G. Vasseur, J. Va'vra, M. Verderi, D. Warner, T.F. Weber, W. Wenzel, R. Wilson, G. Wormser, Ch. Yèche and M. Zito 397 (1997) 261
Beam tests of "SPACAL"-type modules for a high-pressure gas calorimeter, V.F. Konstantinov, R.N. Krasnokutsky, R.S. Shuvalov, A.A. Solodkov, E.A. Starchenko, V.V. Sushkov, A.M. Zaitsev, R.I. Dzhelyadin, S.V. Kopikov and O.V. Solovyanov 397 (1997) 283
Particle identification in phoswich detectors by signal width measurement, L. Wissink, M. Hoefman, M. Seip and H.W. Wilschut (*Letter to the Editor*) 397 (1997) 472
Analytical calculation of dE/dx cluster-charge loss due to threshold effects, F.P. Brady and J. Dunn (*Letter to the Editor*) 397 (1997) 475

Nuclear Spectroscopy

Development and characterization of a low-energy particle-identification telescope array for proton and alpha spectroscopy, M.W. Rowe, D.M. Moltz, J.C. Batchelder, T.J. Ognibene, R.J. Tighe and J. Cerny 397 (1997) 292
Development of a compact multi-electron detector for in-beam spectroscopy, M. Kidera, M. Oshima, M. Katagiri, Y. Hatsukawa and T. Morikawa 397 (1997) 304
Half-lives of isomeric levels of ^{87m}Sr, ^{111m}Cd, ^{113m}In and ^{115m}In activated by ^{60}Co γ-ray irradiation, X.-q. Wen, K. Shizuma, S. Hamanaka, K. Iwatani and H. Hasai (*Letter to the Editor*) 397 (1997) 478

Gamma, X-ray and Charged Particle Detectors

A natural calibration source for determining germanium detector efficiencies, M.C. Perillo Isaac, D. Hurley, R.J. McDonald, E.B. Norman and A.R. Smith 397 (1997) 310
Photoelasticity for the investigation of internal stress in BGO scintillating crystals, M. Lebeau, G. Majni, N. Paone and D. Rinaldi 397 (1997) 317
Calculation of field distortion by a large-gained avalanche in a gas counter, T. Sakae and A. Nohtomi 397 (1997) 323
Silicon devices for low-energy X-ray detection: Comparison between the charge-coupled device and the semiconductor drift chamber, A. Castoldi and C. Fiorini 397 (1997) 332
Behavior of a fast counting system with an avalanche photodiode detector for synchrotron X-rays, S. Kishiomoto 397 (1997) 343

Neutron Physics

Evaluation of cold-neutron scattering cross sections for liquid ^{4}He at temperatures between 1 and 4.2 K, N. Morishima and Y. Abe 397 (1997) 354
Determination of the gamma-ray background in a pulsed epithermal neutron beam, Y.-F. Yen, J.D. Bowman, L.Y. Lowie, Y. Masuda, G.E. Mitchell and S.I. Penttila 397 (1997) 365
Focusing of neutrons and ^{3}He atomic beams with hexapole magnets, Á. Steinhof 397 (1997) 371
Neutron cross-talk in a multi-detector system, J. Wang, A. Galonsky, J.J. Kruse, P.D. Zecher, F. Deák, Á. Horváth, Á. Kiss, Z. Seres, K. Ieki and Y. Iwata 397 (1997) 380
Fast neutron detection with germanium detectors: Unfolding the 692 keV peak response for fission neutron spectra, G. Fehrenbacher, R. Meckbach and H.G. Paretzke 397 (1997) 391

Electronics

On the noise performance of a novel delay-switched gated integrator, J. Gál, G. Hegyesi, G. Kalinka, B.M. Nyakó and A. Kerek 397 (1997) 399

Numerical and Data Analysis

How to derive the optimum filter in presence of arbitrary noises, time-domain constraints, and shaped input signals: A new method, A. Pullia 397 (1997) 414
Neural network fits to neutron induced reactions using weighted least-mean-squares, B.P. Dubey, S.K. Kataria and A.K. Mohanty 397 (1997) 426

Medical Applications and Dosimetry

Experimental comparison of mechanical and electronic gamma-ray collimation, J.E. Gormley, W.L. Rogers, N.H. Clinthorne, D.K. Wehe and G.F. Knoll 397 (1997) 440
Integrated measurements of ^{218}Po, ^{214}Pb and ^{214}Bi + ^{214}Po in air under environmental concentrations, D.S. Pressyanov 397 (1997) 448
Integrated measurements of ^{218}Po, ^{214}Pb and ^{214}Bi + ^{214}Po in air under environmental concentration – mathematical supplement, D.S. Pressyanov 397 (1997) 455

Special Applications

Simulations of the interaction region in a photon–photon collider, P. Chen, T. Ohgaki, A. Spitkovsky, T. Takahashi and K. Yokoya 397 (1997) 458
(t, ^{3}He) Reaction; New tool for studying spin–isospin excitations in neutron rich nuclei, I. Daito, H. Akimune, S.M. Austin, D. Bazin, G.P.A. Berg, J.A. Brown, B.S. Davids, Y. Fujita, H. Fujimura, M. Fujiwara, R. Hazama, T. Inomata, K. Ishibashi, J., Jänecke, S. Nakayama, K. Pham, D.A. Roberts, B.M. Sherrill, M. Steiner, A. Tamii, M. Tanaka, H. Toyokawa and M. Yosoi 397 (1997) 465

Letters to the Editor

Particle identification in phoswich detectors by signal width measurement, L. Wissink, M. Hoefman, M. Seip and H.W. Wilschut 397 (1997) 472
Analytical calculation of dE/dx cluster-charge loss due to threshold effects, F.P. Brady and J. Dunn 397 (1997) 475
Half-lives of isomeric levels of ^{87m}Sr, ^{111m}Cd, ^{113m}In and ^{115m}In activated by ^{60}Co γ-ray irradiation, X.-q. Wen, K. Shizuma, S. Hamanaka, K. Iwatani and H. Hasai 397 (1997) 478